

DAFTAR PUSTAKA

1. Vaya J, Aviram M. Nutritional antioxidants mechanisms of action, analyses of activities and medical applications. *Current Medicinal Chemistry-Immunology, Endocrine & Metabolic Agents* 2001;1(1):99–117.
2. Winarsi H. Antioksidan alami & radikal bebas. Yogyakarta: Penerbit Kanisius; 2007.
3. Munir AA. A taxonomic revision of the genus *Premna* L. (*verbenaceae*) in Australia. *Journal of the Adelaide Botanic Garden* 1984;7(1):1–43.
4. Warriar PK, Nambiar VPK, Ramankutty C. Indian medicinal plants: a compendium of 500 species. Volume I. India: Orient Longman Publishers; 1994.
5. Nirmal NP, Rajput MS, Prasad RGSV, Ahmad M. Brazilin from *Caesalpinia sappan* heartwood and its pharmacological activities: a review. *Asian Pacific Journal of Tropical Medicine* 2015;8(6):421–430.
6. Bakar FA, Mustafa RA, Hamid AA, Mohamed S. Total phenolic compounds, flavonoids, and radical scavenging activity of 21 selected tropical plants. *Journal of Food Science* 2010;75(1):28–35.
7. Wetwitayaklung P, Phaechamud T, Keokitichai S. The antioxidant activity of *Caesalpinia sappan* L. heartwood in various ages. *Naresuan University Journal* 2005;13(2):43–52.
8. Molyneux P. The use of the stable free radical *diphenylpicryl-hydrazyl* (DPPH) for estimating antioxidant activity. *Songklanakarin Journal of Science Technology* 2004;26(2):211–219.
9. Isnindar, Wahyuono S, Widyarini S. Determination of antioxidant activities of buas-buas leaves (*Premna serratifolia* L.) using DPPH (2,2-diphenyl-1-picrylhydrazyl) method. *Traditional Medicine Journal* 2016;21(3).
10. Utari FD, Sumirat DM, Djaeni M. Produksi antioksidan dari ekstrak kayu secang (*Caesalpinia sappan* L.) menggunakan pengering berkelembaban rendah. *Jurnal Aplikasi Teknologi Pangan* 2017;6(3):1–4.
11. Miksusanti, Elfita, Hotdelina S. Aktivitas antioksidan dan sifat kestabilan warna campuran ekstrak etil asetat kulit buah manggis (*Garcinia mangostana* L.) dan kayu secang (*Caesalpinia sappan* L.). *Jurnal Penelitian Sains* 2012;15(2):60–69.

12. Noviyanti. Pengaruh kepolaran pelarut terhadap aktivitas antioksidan ekstrak etanol daun jambu Brazil batu (*Psidium guineense* L.) dengan metode DPPH. Jurnal Farmako Bahari 2016;7(1):29–35.
13. Hadiarti D. Identifikasi ekstrak n-heksana senyawa buas-buas (*Premna serratifolia* Linn) menggunakan GC-MS. Jurnal Buletin Al-Ribaath 2016;12(1):22–28.
14. Fatimah S, Alimudin AH, Jayuska A. Pengaruh keasaman terhadap stabilitas pigmen cengkodok (*Melastoma malabathricum*), kayu secang (*Caesalpinia sappan* Linn.) serta campuran keduanya. JKK 2015;4(1):91–95.
15. Pangaribowo DA, Sary IP, Pratoko DK. Sintesis dan aktivitas antioksidan 3-(3,4-dimetoksifenil)-1-(4-metilfenil)-2-propen-1-on. Jurnal Kedokteran Gigi Unej 2014;11(2):43–46.
16. Isnindar, Luliana S. Synergism of antioxidant activity combination of buas-buas (*Premna serratifolia* Linn.), meniran (*Phyllanthus niruri* L.), secang (*Caesalpinia sappan*) and roselle (*Hibiscus sabdariffa*) extracts. Traditional Medicine Journal 2020;25(3):138–143.
17. Thirumalai D, Paridhavi M, Gowtham M. A phytochemical review on *Premna* species. International Journal of Research in Phytochemistry and Pharmacology 2011;1(4):196–200.
18. Tonius J, Agus Wibowo M, Idiawati N. Isolasi dan karakterisasi senyawa steroid fraksi n-heksana daun buas-buas (*Premna serratifolia* L.). Jurnal Kimia Khatulistiwa 2016;5(1):1–7.
19. Rajendran R. Antimicrobial activity of different bark and wood of *Premna serratifolia* Linn. International Journal of Pharma and Bio Sciences 2010;1(1):1–9.
20. Vadivu R, Suresh AJ, Girinath K, Kannan PB, Vimala R, Kumar NMS. Evaluation of hepatoprotective and in-vitro cytotoxic activity of leaves of *Premna serratifolia* Linn. Journal of Scientific Research 2008;1(1):145–152.
21. Veronika V, Agus Wibowo M, Harlia. Aktivitas antioksidan dan toksisitas ekstrak buah buas-buas (*Premna serratifolia* Linn). Jurnal Kimia Khatulistiwa 2016;5(3):45–51.
22. Kumar V, Jain SK. Plant products in some tribal markets of Central India. Economic Botany 2002;56(3):242–245.
23. Singh CR, Nelson R, Krishnan PM, Mahesh K, Pargavi B. Identification of volatile constituents from *Premna serratifolia* L. through GC-MS. International Journal of PharmTech Research 2011;3(2):1050–1058.

24. Tjitrosoepomo G. Taksonomi umum. Cetakan ke-3. Yogyakarta: *Gadjah Mada University Press*; 2005.
25. Min BS, Cuong TD, Hung TM, Min BK, Shin BS, Woo MH. Compounds from the heartwood of *Caesalpinia sappan* and their anti-inflammatory activity. *Bioorganic & Medicinal Chemistry Letters* 2012;22(24):7436–7439.
26. Srinivasan R, Selvam GG, Karthik S, Mathivanan K, Baskaran R, Karthikeyan M, dkk. In vitro antimicrobial activity of *Caesalpinia sappan* L. *Asian Pac J Trop Biomed* 2012;2(1):136–139.
27. Batubara I, Mitsunaga T, Ohashi H. Brazilin from *Caesalpinia sappan* wood as an antiacne agent. *Journal of Wood Science* 2010;56(1):77–81.
28. Nagai M, Nagumo S. Protosappanin b, a new dibenzoxocin derivative from sappan lignum (*Caesalpinia sappan*). *Heterocycles* 1986;24:601–606.
29. Nagai M, Nagumo S, Lee SM, Eguchi I, Kawai KI. Protosappanin a, a novel biphenyl compound from sappan lignum. *Chemical and Pharmaceutical Bulletin* 1986;34(1):1–6.
30. Lim DK, Choi U, Shin DH. Antioxidative activity of some solvent extract from *Caesalpinia sappan* L. *Korean Journal of Food Science and Technology* 1996;28(1):77–82.
31. Direktorat Jenderal Pengawasan Obat dan Makanan. Farmakope Indonesia. Edisi IV. Jakarta: Departemen Kesehatan Republik Indonesia; 1995.
32. Soegihardjo CJ. Farmakognosi. Yogyakarta: PT Citra Aji Parama; 2013.
33. Sulihono A, Tarihoran B, Agustina TE. Pengaruh waktu, temperatur, dan jenis pelarut terhadap ekstraksi pektin dari kulit jeruk bali (*Citrus maxima*). *Jurnal Teknik Kimia* 2012;18(4):1–8.
34. Singh RP, Sharad S, Kapur S. Free radicals and oxidative stress in neurodegenerative diseases: relevance of dietary antioxidants. *Journal Indian Academy of Clinical Medical* 2004;5(3):218–225.
35. Direktorat Jenderal Pengawasan Obat dan Makanan. Parameter standar umum ekstrak tumbuhan obat. Jakarta: Departemen Kesehatan Republik Indonesia; 2000.
36. Departemen Kesehatan Republik Indonesia. Sediaan galenik. Jakarta: Departemen Kesehatan Republik Indonesia; 1986.
37. Halliwell B, Gutteridge JMC. Free radicals in biology and medicine. 4th Edition. New York: Oxford University Press; 2007.

38. Clarkson PM, Thompson HS. Antioxidants: what role do they play in physical activity and health? *The American Journal of Clinical Nutrition* 2000;72(2):637–646.
39. Dröge W. Free radicals in the physiological control of cell function. *Physiological Reviews* 2002;82(1):47–95.
40. Jacinto SD, Ramos EF, Siguan APT, Canoy RJC. Determining the antioxidant property of plant extracts: a laboratory exercise. *Asian Journal of Biology Education* 2011;5:22–25.
41. Setiati S. Radikal bebas, antioksidan dan proses menua. *Medika* 2003;6(29):366–369.
42. Liochev SI. Reactive oxygen species and the free radical theory of aging. *Free Radical Biology and Medicine* 2013;60:1–4.
43. Prakash A, Rigelhof F, Miller E. Medallion laboratories analytical progress: antioxidant activity. *Takes You into the Heart of A Giant Resource* 2001;19(2):1–4.
44. Nugroho CA. Pengaruh minuman beralkohol terhadap jumlah lapisan sel spermatogenik dan berat vesikula seminalis mencit. *Jurnal Ilmiah Widya Warta* 2009;33(1):56–60.
45. Sayuti K, Yenrina R. Antioksidan alami dan sintetik. Padang: *Andalas University Press*; 2015.
46. Miller HE, Rigelhof F, Marquart L, Prakash A, Kanter M. Antioxidant content of whole grain breakfast cereals, fruits and vegetables. *Journal of the American College of Nutrition* 2000;19(3):312–319.
47. Lobo V, Patil A, Phatak A, Chandra N. Free radicals, antioxidants and functional foods: impact on human health. *Pharmacognosy Reviews* 2010;4(8):118–126.
48. Winarno FG. Kimia pangan dan gizi. Jakarta: PT Gramedia Pustaka Utama; 2004.
49. Pérez-Jiménez J, Arranz S, Tabernero M, Díaz- Rubio ME, Serrano J, Goñi I, dkk. Updated methodology to determine antioxidant capacity in plant foods, oils and beverages: extraction, measurement and expression of results. *Food Research International* 2008;41(3):274–285.
50. Thaipong K, Boonprakob U, Crosby K, Cisneros-Zevallos L, Hawkins Byrne D. Comparison of ABTS, DPPH, FRAP, and ORAC assays for estimating antioxidant activity from guava fruit extracts. *Journal of Food Composition and Analysis* 2006;19(6–7):669–675.

51. Pisoschi AM, Cheregi MC, Danet AF. Total antioxidant capacity of some commercial fruit juices: electrochemical and spectrophotometrical approaches. *Molecules* 2009;14(1):480–493.
52. Karadag A, Ozcelik B, Saner S. Review of methods to determine antioxidant capacities. *Food Analytical Methods* 2009;2(1):41–60.
53. Miguel MG. Antioxidant activity of medicinal and aromatic plants. a review. *Flavour and Fragrance Journal* 2010;25(5):291–312.
54. Marc F, Davin A, Deglene-Benbrahim L, Ferrand C, Baccaunaud M, Fritsch P. Studies of several analytical methods for antioxidant potential evaluation in food. *Médecine Sciences* 2004;20(4):458–463.
55. Su L, Yin JJ, Charles D, Zhou K, Moore J, Yu L (Lucy). Total phenolic contents, chelating capacities, and radical-scavenging properties of black peppercorn, nutmeg, rosehip, cinnamon and oregano leaf. *Food Chemistry* 2007;100(3):990–997.
56. Denev P, Ciz M, Ambrozova G, Lojek A, Yanakieva I, Kratchanova M. Solid-phase extraction of berries' anthocyanins and evaluation of their antioxidative properties. *Food Chemistry* 2010;123(4):1055–1061.
57. Ou B, Hampsch-Woodill M, Flanagan J, Deemer EK, Prior RL, Huang D. Novel fluorometric assay for hydroxyl radical prevention capacity using fluorescein as the probe. *Journal of Agricultural and Food Chemistry* 2002;50(10):2772–2777.
58. Pellegrini N, Serafini M, Colombi B, Del Rio D, Salvatore S, Bianchi M, dkk. Total antioxidant capacity of plant foods, beverages and oils consumed in Italy assessed by three different in vitro assays. *The Journal of Nutrition* 2003;133(9):2812–2819.
59. Gil MI, Tomás-Barberán FA, Hess-Pierce B, Kader AA. Antioxidant capacities, phenolic compounds, carotenoids, and Vitamin C contents of nectarine, peach, and plum cultivars from California. *Journal of Agricultural and Food Chemistry* 2002;50(17):4976–4982.
60. Jayaprakasha GK, Girenavar B, Patil BS. Radical Scavenging Activities of Rio Red Grapefruits and Sour Orange Fruit Extracts in Different In vitro Model Systems. *Bioresour Technol* 2008;99(10):4484–4494.
61. Apak R, Güçlü K, Özyürek M, Karademir SE. Novel total antioxidant capacity index for dietary polyphenols and vitamins C and E, using their cupric ion reducing capability in the presence of neocuproine: CUPRAC method. *Journal of Agricultural and Food Chemistry* 2004;52(26):7970–7981.

62. Prior RL, Cao G. In vivo total antioxidant capacity: comparison of different analytical methods. *Free Radical Biology and Medicine* 1999;27(11–12):1173–1181.
63. Kiers CT, de Boer JL, Olthof R, Spek AL. The crystal structure of a 2,2-*diphenyl-1-picrylhydrazyl* (DPPH) modification. *Acta Crystallographica Section B Structural Crystallography and Crystal Chemistry* 1976;32(8):2297–2305.
64. Blois MS. Antioxidant determinations by the use of a stable free radical. *Nature* 1958;181(4617):1199–1200.
65. Surai PF. Natural antioxidants in avian nutrition and reproduction. England: Nottingham University Press Nottingham; 2002.
66. Prior RL, Wu X, Schaich K. Standardized methods for the determination of antioxidant capacity and phenolics in foods and dietary supplements. *Journal of Agricultural and Food Chemistry* 2005;53(10):4290–4302.
67. Ghosal M, Mandal P. Phytochemical screening and antioxidant activities of two selected “Bihi” fruits used as vegetables in Darjeeling Himalaya. *International Journal of Pharmacy and Pharmaceutical Sciences* 2012;4(2):567–574.
68. Kedare SB, Singh RP. Genesis and development of DPPH method of antioxidant assay. *Journal of Food Science and Technology* 2011;48(4):412–422.
69. Santoso H, Broto Nugroho H. Aktivitas antioksidan fraksi polar ekstrak metanol dari kulit kayu batang *Shorea acuminatissima* dengan metode DPPH. *Jurnal Ilmu Dasar* 2007;8(2):158–164.
70. Mosquera OM, Correa YM, Buitrago DC, Niño J. Antioxidant activity of twenty five plants from Colombian biodiversity. *Memorias do Instituto Oswaldo Cruz* 2007;102(5):631–634.
71. Badarinath A V, Rao KM, Chetty CMS, Ramkanth S, Rajan TVS, Gnanaprakash K. A review on in-vitro antioxidant methods: comparisons, correlations and considerations. *International Journal of PharmTech Research* 2010;2(2):1276–1285.
72. Scherer R, Godoy HT. Antioxidant activity index (AAI) by the 2,2-*diphenyl-1-picrylhydrazyl* method. *Food Chemistry* 2009;112(3):654–658.
73. Mulja M, Suharman S. Analisis instrumental. Surabaya: *Airlangga University Press*; 1995.

74. Sudarmadji S. Teknik analisa biokimiawi. Edisi Pertama. Yogyakarta: Liberty; 1996.
75. Skoog DA, West DM. Handbook of principles of instrumental analysis. New York: Holt, Reinhart, and Winston; 1971.
76. Islam T, Streck L, Paz MFCJ, Sousa JM de C, Alencar MVOB de, Mata AMOF da, dkk. Preparation of phytol-loaded nanoemulsion and screening for antioxidant capacity. *International Archives of Medicine* 2016;9(70):1–15.
77. Oktaviani E, Wibowo MA, Idiawati N. Penapisan fraksi antioksidan daun buas-buas (*Premna serratifolia* Linn.). *Jurnal Kimia Khatulistiwa* 2015;4(3):40–47.
78. Palariya D, Singh A, Dharmi A, Kumar R, Prakash O, Pant AK, dkk. Phytochemical analysis and biological activities of leaves and bark hexane extracts of *Premna mucronata* Roxb. collected from Kumaun Hills of Uttarakhand. *International Journal of Herbal Medicine* 2019;7(5):35–44.
79. Al-Reza SM, Rokonzaman M, Afroz M, Hussain MI, Rashid MA, Rahman A. Chemical composition and antioxidant activity of essential oil and organic extracts of *Premna integrifolia* Linn. *Brazilian Archives of Biology and Technology* 2016;59:1–8.
80. Rusdi UD, Widowati W, Sudiarto S. The effect of secang wood (*Caesalpinia sappan* L.) extract to number of iodine and peroxide of groundnut cake. *Animal Production* 2005;7(3):150–155.
81. Pratoko DK, Sary IP. Uji aktivitas antioksidan metode DPPH senyawa turunan kalkon 3-(3, 4-dimetoksifenil)-1-(4'-hidroksifenil)-2-propen-1-on. *Stomatognathic-Jurnal Kedokteran Gigi* 2016;11(2):38–42.
82. Srinivas KVNS, Koteswara Rao Y, Mahender I, Das B, Rama Krishna KVS, Hara Kishore K, dkk. Flavanoids from *Caesalpinia pulcherrima*. *Phytochemistry* 2003;63(7):789–793.
83. Afrin S, Pervin R, Sabrin F, Sohrab H, Rony SR, Islam E, dkk. Assessment of antioxidant, antibacterial and preliminary cytotoxic activity of chloroform and methanol extracts of *Caesalpinia crista* L. leaf. *Bangladesh J Bot* 2016;45(5):1061–1068.
84. Lubaina AS, Brijithlal ND, Murugan K. Phytochemical analysis and antioxidant potentiality of *Premna serratifolia* L. -an aromatic medicinal plant. *World Journal of Pharmaceutical Research* 2016;5(12):841–852.

85. Tharakan ST. Phytochemical screening and in vitro antioxidant activity of *Premna serratifolia* L. leaf extracts. *International Journal of Food and Nutritional Sciences* 2021;10(3):35–40.
86. Lima RK, Cardoso MG. Família lamiaceae: importantes óleos essenciais com ação biológica e antioxidante. *Revista Fitos* 2007;3:14–24.
87. Santos CC de MP, Salvadori MS, Mota VG, Costa LM, de Almeida AAC, de Oliveira GAL, dkk. Antinociceptive and antioxidant activities of phytol in vivo and in vitro models. *Neuroscience Journal* 2013;2013:1–9.
88. Wagner KH, Elmadfa I. Biological relevance of terpenoids: overview focusing on mono-, di- and tetraterpenes. *Annals of Nutrition and Metabolism* 2003;47:95–106.
89. Albogami AS, Karama U, Mousa AA, Khan M, Al-Mazroa SA, Alkhathlan HZ. Simple and efficient one step synthesis of functionalized flavanones and chalcones. *Oriental Journal of Chemistry* 2012;28(2):619–626.
90. Shidiq N, Rahmadani A, Wijaya V, Rijai L. Sintesis senyawa turunan flavanon dan uji bioaktivitas senyawa kalkon sebagai senyawa antara dalam sintesis flavanon. *Proceeding of the 8th Mulawarman Pharmaceuticals Conferences* 2018;8:68–74.
91. Halimatussa'diah F, Fitriani VY, Rijai L. Aktivitas antioksidan kombinasi daun cempedak (*Artocarpus champedan*) dan daun bandotan (*Ageratum conyzoides* L.). *Journal of Tropical Pharmacy and Chemistry* 2014;2(5):248–251.
92. Retnaningtyas Y, Hamzah MH, Kristiningrum N. Uji aktivitas antioksidan kombinasi daun kopi arabika (*Coffea arabica*) dan daun pandan (*Pandanus amaryllifolius*) dengan metode DPPH. *Jurnal Farmasi Indonesia* 2017;9(1):26–32.
93. Harborne JB. Metode fitokimia: penuntun cara modern menganalisis tumbuhan. Bandung: Penerbit ITB; 1987.
94. Dahlia AA, Kosman R, Haliya H. Uji aktivitas antiradikal bebas fraksi dietil eter beruwas laut (*Scaevola taccada* (Gaertn.) Roxb.) menggunakan DPPH. *Jurnal Ilmiah As-Syifaa* 2013;5(1):62–71.
95. Azizah Z, Zulharmita Z, Zulfian E. Uji aktivitas antioksidan dan penetapan kadar vitamin C ekstrak buah naga merah keunguan (*Hylocereus lemairei* (Hook.) Britton & Rose) secara spektrofotometri UV-vis. *Jurnal Farmasi Higea* 2017;9(1):41–47.
96. Departemen Kesehatan Republik Indonesia. Farmakope herbal Indonesia. Edisi I. Jakarta: Departemen Kesehatan Republik Indonesia; 2008.

97. Voigt R, Soewandhi SN. Buku Pelajaran Teknologi Farmasi. Edisi Kelima. Yogyakarta: *Gajah Mada University Press*; 1994.
98. Hasrianti, Nururrahmah, Nurasia. Pemanfaatan ekstrak bawang merah dan asam asetat sebagai pengawet alami bakso. *Jurnal Dinamika* 2017;7(1):9–30.
99. Prastyo, Rahayoe AS. Penyaringan metode *buchner* sebagai alternatif pengganti penyaringan sederhana pada percobaan adsorpsi dalam praktikum kimia fisika. *Indonesian Journal of Laboratory* 2018;1(1):23–27.
100. Winata EW, Yunianta Y. Ekstraksi antosianin buah murbei (*Morus alba* L.) metode *ultrasonic batch* (kajian waktu dan rasio bahan : pelarut). *Jurnal Pangan dan Agroindustri* 2015;3(2):773–783.
101. Cikita I, Hasibuan IH, Hasibuan R. Pemanfaatan flavonoid ekstrak daun katuk *Sauropus androgynous* (L.) Merr) sebagai antioksidan pada minyak kelapa. *Jurnal Teknik Kimia USU* 2016;5(1):45–51.
102. Setyowati WAE, Damayanti DR. Pengaruh metode ekstraksi terhadap aktivitas antioksidan kulit buah durian (*Durio zibethinus* Murr.) varietas petruk. Dalam: Prosiding SNPS (Seminar Nasional Pendidikan Sains). Surakarta: Program Studi Kimia PMIPA FKIP UNS; 2014. halaman 1–9.
103. Ngernnak C, Panyajai P, Anuchapreeda S, Wongkham W, Saiai A. Phytochemical and cytotoxic investigations of the heartwood of *Caesalpinia sappan* Linn. *AJPCR* 2018;11(2):336–339.
104. Tiwari P, Kumar B, Kaur M, Kaur G, Kaur H. Phytochemical screening and extraction: a review. *Internationale Pharmaceutica Sciencia* 2011;1(1):98–106.
105. Katuuk RHH, Wanget SA, Tumewu P. Pengaruh perbedaan ketinggian tempat terhadap kandungan metabolit sekunder pada gulma babadotan (*Ageratum conyzoides* L.). *Cocos* 2019;1(4).
106. Tanamal MT, Papilaya PM, Smith A. Kandungan senyawa flavonoid pada daun melinjo (*Gnetum gnemon* L.) berdasarkan perbedaan tempat tumbuh. *BIOPENDIX: Jurnal Biologi, Pendidikan Dan Terapan* 2017;3(2):142–147.
107. Hartatik W, Subiksa IGM, Dariah A. Sifat kimia dan fisik tanah gambut. Bogor: Balai Penelitian Tanah; 2011.
108. Astuti E, Sunarminingsih R, Jenie UA, Mubarika S, Sismindari S. Pengaruh lokasi tumbuh, umur tanaman dan variasi jenis destilasi terhadap komposisi senyawa minyak atsiri rimpang curcuma mangga produksi beberapa sentra di Yogyakarta. *Journal of People and Environment* 2014;21(3):323–330.

109. Ruwali P, Negi D. Phytochemical analysis and evaluation of antioxidant activity of *Premna latifolia* Roxb. a medicinal plant (family: *lamiaceae*). The Pharma Innovation Journal 2019;8(5):13–20.
110. Julianti WP, Ikrawan Y, Iwansyah AC. Pengaruh jenis pelarut terhadap kandungan total fenolik, aktifitas antioksidan dan toksisitas ekstrak buah ciplukan (*Physalis angulata* L.). Jurnal Riset Teknologi Industri 2019;13(1):70–79.
111. Al-Mahbub AS, Swasono MAH. Pengaruh proporsi kayu secang (*Caesalpinia sappan* L.) dan kayu manis (*Cinnamomum burmanii* Bl) terhadap aktivitas antioksidan “wedang semanis.” Teknologi Pangan: Media Informasi dan Komunikasi Ilmiah Teknologi Pertanian 2017;8(2):107–114.
112. Ibrahim AM, Yuniarta Y, Sriherfyna FH. Pengaruh suhu dan lama waktu ekstraksi terhadap sifat kimia dan fisik pada pembuatan minuman sari jahe merah (*Zingiber officinale* var. *Rubrum*) dengan kombinasi penambahan madu sebagai pemanis. Jurnal Pangan dan Agroindustri 2014;3(2):530–541.
113. Wahyuni NMS, Wrsiati LP, Hartiati A. Pengaruh perlakuan suhu dan waktu maserasi terhadap karakteristik ekstrak daun bambu duri (*Bambusa blumeana*) sebagai sumber antioksidan. Jurnal Ilmiah Teknologi Pertanian Agrotechno 2020;5(1):27–33.
114. Azkiyah DR, Tohari. Pengaruh ketinggian tempat terhadap pertumbuhan, hasil dan kandungan steviol glikosida pada tanaman stevia (*Stevia rebaudiana*). Vegetalika 2019;8(1):1–12.
115. Aminah A, Maryam S, Baits M, Kalsum U. Perbandingan aktivitas antioksidan ekstrak etanol daun sirsak (*Annona muricata* L.) berdasarkan tempat tumbuh dengan metode peredaman DPPH. Jurnal Fitofarmaka Indonesia 2016;3(1):146–150.
116. Harahap R khadijah, Batubara R, Surjanto. Uji antioksidan daun muda dan daun tua gaharu (*Aquilaria malaccensis* Lamk) berdasarkan perbedaan tempat tumbuh pohon. Peronema Forestry Science Journal 2015;4(4):72–87.
117. Rice-Evans C, Miller N, Paganga G. Antioxidant properties of phenolic compounds. Trends in Plant Science 1997;2(4):152–159.
118. Mateus N, de Freitas V. Anthocyanins as food colorants. Dalam: Anthocyanins: biosynthesis, functions, and applications. Springer; 2008. halaman 284–304.
119. Fennema OR. Food chemistry, Marcel Dekker. New York: Inc; 1996.

120. Rifkowaty EE, Wardanu AP, Hastuti ND. Aktivitas antioksidan sirup buah karamunting (*Rhodomyrtus tomentosa*) dengan variasi penambahan asam sitrat. Jurnal Teknologi dan Industri Pertanian Indonesia 2018;10(1):16–20.
121. Moharram HA, Youssef MM. Methods for determining the antioxidant activity: a review. Alexandria Journal of Food Science and Technology 2014;11(1):31–42.
122. Číž M, Čížová H, Denev P, Kratchanova M, Slavov A, Lojek A. Different methods for control and comparison of the antioxidant properties of vegetables. Food Control 2010;21(4):518–523.
123. Wong-Paz JE, Contreras-Esquivel JC, Rodríguez-Herrera R, Carrillo-Inungaray ML, López LI, Nevárez-Moorillón G V., dkk. Total phenolic content, in vitro antioxidant activity and chemical composition of plant extracts from semiarid mexican region. Asian Pacific Journal of Tropical Medicine 2015;8(2):104–111.
124. Chaves N, Santiago A, Alías JC. Quantification of the antioxidant activity of plant extracts: analysis of sensitivity and hierarchization based on the method used. Antioxidants 2020;9(1):76.